

Title (en)

Method for producing L-Glutamic acid by fermentation

Title (de)

Verfahren zur fermentativen Herstellung von L-Glutaminsäure

Title (fr)

Procédé de production d'acide L-glutamique par fermentation

Publication

**EP 1010755 A1 20000621 (EN)**

Application

**EP 99125302 A 19991217**

Priority

JP 36061998 A 19981218

Abstract (en)

A coryneform bacterium having enhanced intracellular pyruvate dehydrogenase activity which is obtained by increasing copy number of a gene coding for intracellular pyruvate dehydrogenase and having L-glutamic acid-producing ability is cultured in a medium preferably containing vitamin B1 at a concentration of 20  $\mu$ g/L or higher, so that L-glutamic acid should be accumulated in the medium, and L-glutamic acid is collected from the culture. According to the present invention, a bacterial strain having high L-glutamic acid-producing ability has been bred, and there is provided a method for efficiently producing L-glutamic acid at a low cost.

IPC 1-7

**C12N 1/21**; **C12P 13/14**; **C12N 15/11**; **C12N 15/53**

IPC 8 full level

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CPC (source: EP)

**C12N 3/00** (2013.01); **C12P 13/14** (2013.01)

Citation (applicant)

- US 5846790 A 19981208 - KIMURA EIICHIRO [JP], et al
- COLE, S.T. ET AL., NATURE, vol. 393, 11 June 1998 (1998-06-11)

Citation (search report)

- [AD] US 5846790 A 19981208 - KIMURA EIICHIRO [JP], et al
- [A] CHEMICAL ABSTRACTS, vol. 122, no. 17, 24 April 1995, Columbus, Ohio, US; abstract no. 209426, ROLLIN, CATHERINE ET AL: "13C-NMR studies of Corynebacterium melassecola metabolic pathways" XP002134304 & EUR. J. BIOCHEM. (1995), 227(1/2), 488-93
- [AD] DATABASE WPI Section Ch Week 198841, Derwent World Patents Index; Class B05, AN 1988-290579, XP002134305

Cited by

EP1103613A1; WO2015060314A1; WO03076635A1; US10202456B2; WO2022092018A1; WO2009031565A1; WO2011024555A1; WO2007100009A1; WO2012157699A1; WO2014185430A1; EP3165608A1; WO2008075483A1; US6806068B1; WO2011055710A1; EP3385389A1; WO2021060337A1; WO2010027045A1; WO2012077739A1; WO2021060438A1; WO2020171227A1; WO2009093703A1; WO2020138178A1; WO2011096554A1; WO2020204179A1; WO2011013707A1; WO2013069634A1; WO2015060391A1; WO2020071538A1; WO2008114721A1; EP2657332A1; WO2015041265A1; EP2949660A1; WO2015005406A1; EP3521433A1; EP4345166A2

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**EP 99125302 A 19991217**; AT 99125302 T 19991217; BR 9906279 A 19991217; CN 99122969 A 19991218; DE 69942821 T 19991217; ID 991158 A 19991220; MY P19905539 A 19991217; PE 00128599 A 19991217